

In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown in accordance with the new mandatory amendment format.

1. (Original) A method comprising:

accessing configuration information of a first type for a device connected to a bus;

accessing configuration information of a second type for the device;

comparing a memory location of the configuration information of the first type to a memory location of the configuration information of the second type; and

selecting the configuration information of the first type if the memory location of the configuration information of the first type matches the memory location of the configuration information of the second type.

2. (Original) The method of claim 1, wherein the bus further comprises a Peripheral Component Interconnect bus.

3. (Original) The method of claim 1, wherein the bus further comprises a Universal Serial Bus.

4. (Original) The method of claim 1, wherein selecting the configuration information further comprises storing the configuration information.

5. (Original) A method of enabling a device driver to access a translated resource descriptor of a Plug-and-Play device connected to a bus, comprising:

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accessing a registry of a Windows Plug-and-Play compliant operating system;

accessing a registry key of the registry;

determining that the registry key is not empty;

determining that a subkey of the registry key contains a resource list;

accessing a main resource descriptor in the resource list;

making a determination that the main resource descriptor is translated;

making a determination that a translated main resource descriptor is for an installed device;

converting the translated main resource descriptor to a data structure for the device driver;

accessing a partial resource descriptor of the translated main resource descriptor;

accessing raw basic input/output system (BIOS)-assigned configuration information for the device;

comparing a memory address location of the raw BIOS-assigned configuration information to the memory address location of the partial resource descriptor; and

selecting the translated main resource descriptor containing the partial resource descriptor with the memory address location that matches the memory address location of the raw BIOS-assigned configuration information.

6. (Original) The method of claim 5, wherein the device driver further comprises a kernel mode device driver.

7. (Original) The method of claim 5, wherein the device further comprises a network adapter.

8. (Original) The method of claim 5, wherein the bus further comprises a Peripheral Component Interconnect bus.

9. (Original) The method of claim 5, wherein the bus further comprises a Universal Serial Bus.

10. (Original) The method of claim 5, wherein the Windows PnP compliant operating system further comprises a Windows NT operating system.

11. (Original) The method of claim 5, wherein the registry key further comprises the HKEY\_LOCAL\_MACHINE/HARDWARE/ RESOURCEMAP/Plug and Play Manager/Plug and Play Manager registry key.

12. (Original) The method of claim 5, wherein determining that the main resource descriptor is translated further comprises identifying the character string “translated” in the main resource descriptor.

13. (Original) The method of claim 5, wherein determining from the main resource descriptor that the device is installed further comprises identifying the character string “NTPNP” in the main resource descriptor.

14. (Original) The method of claim 5, wherein the data structure further comprises the CM\_RESOURCE\_LIST data structure.

15. (Original) The method of claim 5, wherein the memory address location further comprises base address register 0.

16. (Original) A method of enabling a device driver to access a translated resource descriptor of a hardware device connected to a bus, comprising:

accessing a registry of an operating system;

determining that the registry contains a resource list;

accessing a resource descriptor in the resource list;

making a determination that the resource descriptor is translated;

accessing a partial resource descriptor of the translated resource descriptor;

accessing basic input/output system (BIOS)-assigned configuration information for the hardware device;

comparing a memory address location of the BIOS-assigned configuration information to the memory address location of the partial resource descriptor; and

selecting the translated resource descriptor containing the partial resource descriptor with the memory address location that matches the memory address location of the BIOS-assigned configuration information.

17. (Original) The method of claim 16, wherein the hardware device further comprises a Plug-and-Play (PnP) hardware device.

18. (Original) The method of claim 16, wherein the operating system further comprises a Windows PnP compliant operating system.

19. (Original) An article of manufacture comprising a machine-accessible medium having stored thereon sequences of instructions that, when executed by the machine, cause the machine to:

access a registry of a Windows PnP compliant operating system;

access a registry key of the registry;

determine whether the registry key is empty;

determine whether a subkey of the registry key contains a resource list;

determine whether a main resource descriptor of the resource list is translated;

determine whether a translated main resource descriptor is for an installed device;

convert the translated main resource descriptor to a data structure for the device driver;

access a partial resource descriptor of the translated main resource descriptor;

access raw basic input/output system (BIOS)-assigned configuration information for a device connected to a bus;

compare a memory address in base address register 0 of the partial resource descriptor to a memory address in base address register 0 of the BIOS-assigned configuration information; and

select the main resource descriptor containing the partial resource descriptor with the memory address in base address register 0 that matches the memory address in base address register 0 of the BIOS-assigned configuration information.

20. (Original) The article of claim 19, wherein the device driver further comprises a kernel mode device driver.

21. (Original) The article of claim 19, wherein the Windows PnP compliant operating system further comprises a Windows NT operating system.

22. (Original) The article of claim 19, wherein the registry key further comprises the HKEY\_LOCAL\_MACHINE/HARDWARE/ RESOURCEMAP/Plug and Play Manager/Plug and Play Manager registry key.

23. (Original) The article of claim 19, wherein determining that the main resource descriptor is translated further comprises identifying the character string “translated” in the main resource descriptor.

24. (Original) The article of claim 19, wherein determining that the translated main resource descriptor is for an installed device further comprises identifying the character string “NTPNP” in the translated main resource descriptor.

25. (Original) The article of claim 19, wherein the data structure further comprises the CM\_RESOURCE\_LIST data structure.

26. (Original) The article of claim 19, wherein the device further comprises a network adapter.

27. (Original) The article of claim 19, wherein the bus further comprises a Peripheral Component Interconnect bus.

28. (Original) The article of claim 19, wherein the bus further comprises a Universal Serial Bus.

29. (Currently Amended) A device driver in a computer system, comprising:  
a partial resource descriptor accesser to access a partial resource descriptor of a translated main resource descriptor of a resource list of a registry key of a registry of a Windows Plug-and-Play compliant operating system;  
a PCI configuration space accesser to access a Peripheral Component Interconnect (PCI) configuration space containing raw basic input/output system (BIOS)-assigned PCI configuration information for a Plug-and-Play device connected to a PCI bus;  
a memory address collector to collect a memory address of the partial resource descriptor and the memory address of the raw BIOS-assigned PCI configuration information,  
a memory address comparer to compare the memory address of the partial resource descriptor to the memory address of the raw BIOS-assigned PCI configuration information; and

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a main resource descriptor retriever to retrieve the translated main resource descriptor containing the partial resource descriptor with the memory address that matches the memory address of the raw BIOS-assigned configuration information.

30. (Original) The device driver of claim 29, wherein the device driver comprises a kernel mode device driver.

31. (Original) The device driver of claim 29, wherein the registry key further comprises the HKEY\_LOCAL\_MACHINE/HARDWARE/ RESOURCEMAP/Plug and Play Manager/Plug and Play Manager registry key.

32. (Original) The device driver of claim 29, wherein the memory address further comprises the memory address in base address register 0.